

TIDES: HOURLY HEIGHTS

Station PANICA (ENCL. 15.) Year 1978
 Observer LEONARDO FRILLES Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is 750 (1955) which is 17.537 ft or 5.34 m. below B. M. 49

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORIZONTAL SUM |
|---------------|-------------------|------|-----------------------|------|--------------|------|--------------|------|--------------|------|-----------------------|------|----------------|
| DAY OF SERIES | 211 | | 212 | | 213 | | 214 | | 215 | | 216 | | 317 |
| HOUR | Meters | | Meters | | Meters | | Meters | | Meters | | Meters | | Meters |
| 0 | 273 | | 273 | | 269 | | 264 | | 262 | | 259 | | 18.57 |
| 1 | 278 | | 276 | | 269 | | 265 | | 260 | | 259 | | 18.79 |
| 2 | 280 | | 287 | | 283 | | 275 | | 267 | | 257 | | 19.17 |
| 3 | 282 | | 300 | | 297 | | 284 | | 273 | | 259 | | 19.78 |
| 4 | 284 | | 310 | | 307 | | 299 | | 282 | | 264 | | 20.50 |
| 5 | 280 | | 320 | | 320 | | 311 | | 296 | | 283 | | 21.22 |
| 6 | 281 | 6.00 | 326 | 6.19 | 331 | | 323 | | 311 | | 300 | | 21.94 |
| 7 | 319 | 3.21 | 328 | 3.28 | 333 | 7.8 | 334 | | 327 | | 314 | | 22.48 |
| 8 | 341 | | 324 | | 335 | 8.8 | 338 | 8.8 | 332 | | 329 | | 22.80 |
| 9 | 302 | | 316 | | 300 | | 339 | 3.39 | 337 | 4.5 | 335 | | 22.84 |
| 10 | 290 | | 304 | | 320 | | 323 | | 327 | 3.38 | 337 | 10.2 | 22.56 |
| 11 | 295 | | 286 | | 303 | | 324 | | 329 | | 336 | 3.37 | 21.89 |
| Noon | 262 | | 266 | | 283 | | 308 | | 314 | | 326 | 3.36 | 20.91 |
| 12 | 245 | | 251 | | 265 | | 288 | | 293 | | 311 | | 19.76 |
| 13 | 239 | 1.42 | 237 | | 267 | | 288 | | 269 | | 289 | | 18.49 |
| 14 | 238 | 2.38 | 232 | 15.0 | 243 | | 249 | | 251 | | 265 | | 17.52 |
| 15 | 241 | | 227 | 2.31 | 240 | 16.4 | 233 | | 232 | | 244 | | 16.78 |
| 16 | 244 | | 234 | | 240 | 3.39 | 235 | L | 220 | L | 238 | | 16.39 |
| 17 | 251 | | 237 | | 240 | 7.25 | 226 | 7.25 | 220 | 7.11 | 225 | L | 16.25 |
| 18 | 253 | | 241 | | 244 | | 235 | | 226 | | 238 | 15.0 | 16.53 |
| 19 | 269 | | 244 | | 248 | | 245 | | 238 | | 237 | 2.25 | 16.98 |
| 20 | 289 | | 260 | | 258 | | 263 | | 249 | | 243 | | 17.53 |
| 21 | 271 | | 256 | | 265 | | 255 | | 255 | 11 | 251 | | 17.99 |
| 22 | 267 | | 262 | | 269 | | 269 | | 260 | 3.39 | 267 | | 18.33 |
| Sum | 66.13 | | 65.87 | | 67.39 | | 67.42 | | 66.43 | | 66.57 | | 66.17 |
| Sum for | July 78 = 7976.54 | | Divisor = (28d) 67.81 | | (29d) 696.30 | | (30d) 720.31 | | (31d) 774.21 | | Mean for month = 2.66 | | |

Tabulated by [Signature] Date 8/16 Summed by [Signature] Date [Blank]

Aug } 1978
Oct }

TIDES: HOURLY HEIGHTS

DEPARTMENT OF NATIONAL DEFENSE
BUREAU OF COAST AND GEODETIC SURVEY

Station MANILA Year 1976
 Observer Leopoldo Frilles Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is T50 (190) which is 17.53 / 5.24 ft. below B. M. 4A

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORI-ZONTAL SUM |
|---------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-----------------|
| | Jan | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | | | | |
| DAY OF SEQUEY | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | | | | | |
| Hour | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet |
| 0 | 2.96 | 2.76 | 2.63 | 2.51 | 2.42 | 2.31 | 2.30 | | | | | | |
| 1 | 2.98 | 2.80 | 2.66 | 2.54 | 2.42 | 2.28 | 2.20 | | | | | | |
| 2 | 2.94 | 2.80 | 2.64 | 2.54 | 2.40 | 2.23 | 2.13 | | | | | | |
| 3 | 2.82 | 2.72 | 2.64 | 2.55 | 2.41 | 2.24 | 2.10 | | | | | | |
| 4 | 2.64 | 2.60 | 2.58 | 2.52 | 2.40 | 2.24 | 2.08 | | | | | | |
| 5 | 2.44 | 2.42 | 2.46 | 2.44 | 2.39 | 2.22 | 2.06 | | | | | | |
| 6 | 2.25 | 2.28 | 2.32 | 2.38 | 2.36 | 2.22 | 2.10 | | | | | | |
| 7 | 2.14 | 2.18 | 2.22 | 2.30 | 2.34 | 2.22 | 2.15 | | | | | | |
| 8 | 2.10 | 2.12 | 2.18 | 2.24 | 2.30 | 2.20 | 2.20 | | | | | | |
| 9 | 2.11 | 2.10 | 2.17 | 2.25 | 2.28 | 2.24 | 2.20 | | | | | | |
| 10 | 2.14 | 2.12 | 2.18 | 2.24 | 2.24 | 2.28 | 2.23 | | | | | | |
| 11 | 2.22 | 2.20 | 2.24 | 2.30 | 2.32 | 2.28 | 2.24 | | | | | | |
| Noon | 2.28 | 2.32 | 2.30 | 2.38 | 2.40 | 2.36 | 2.32 | | | | | | |
| 12 | 2.38 | 2.48 | 2.42 | 2.48 | 2.50 | 2.44 | 2.42 | | | | | | |
| 13 | 2.48 | 2.52 | 2.52 | 2.60 | 2.60 | 2.58 | 2.51 | | | | | | |
| 14 | 2.48 | 2.58 | 2.60 | 2.66 | 2.72 | 2.64 | 2.65 | | | | | | |
| 15 | 2.46 | 2.58 | 2.65 | 2.72 | 2.78 | 2.78 | 2.76 | | | | | | |
| 16 | 2.42 | 2.54 | 2.64 | 2.76 | 2.82 | 2.78 | 2.88 | | | | | | |
| 17 | 2.38 | 2.50 | 2.60 | 2.75 | 2.82 | 2.81 | 2.92 | | | | | | |
| 18 | 2.40 | 2.48 | 2.58 | 2.70 | 2.78 | 2.81 | 2.92 | | | | | | |
| 19 | 2.46 | 2.48 | 2.58 | 2.70 | 2.78 | 2.81 | 2.92 | | | | | | |
| 20 | 2.46 | 2.48 | 2.52 | 2.64 | 2.72 | 2.82 | 2.92 | | | | | | |
| 21 | 2.53 | 2.58 | 2.58 | 2.58 | 2.64 | 2.72 | 2.84 | | | | | | |
| 22 | 2.62 | 2.52 | 2.48 | 2.50 | 2.52 | 2.54 | 2.70 | | | | | | |
| 23 | 2.69 | 2.58 | 2.48 | 2.48 | 2.40 | 2.42 | 2.52 | | | | | | |
| Sum | | | | | | | | | | | | | |

Sum for = Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month=

Tabulated by WJF Date 28/2-76 Summed by _____ Date _____

TIDES: HOURLY HEIGHTS

Station M Manila Year 1915
 Observer Leopoldo Siller Lat. 14° 25' N Long. 120° 58' E
 Time Meridian 120° E Height datum is 150 (190) which is 17.39 m below B. M. 4A

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORIZONTAL SUM | | | |
|---------------|-------|------|-------|------|-------|------|-------|------|-------|------|----------------|------|---|--|
| | Dec. | 31 | Jan. | 1 | 2 | 3 | 4 | 5 | 6 | | | | | |
| DAY OF PERIOD | 306 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |
| Hour | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | | |
| 0 | 2.52 | 2.48 | 2.92 | 3.14 | 3.26 | 3.34 | 3.44 | 3.44 | 3.44 | 3.44 | | | | |
| 1 | 2.76 | 2.42 | 2.66 | 2.98 | 3.08 | 3.14 | 3.14 | 3.14 | 3.14 | 3.14 | | | | |
| 2 | 2.74 | 2.16 | 2.72 | 2.68 | 2.86 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | | | | |
| 3 | 1.90 | 1.94 | 2.12 | 2.42 | 2.62 | 2.74 | 2.74 | 2.74 | 2.74 | 2.74 | | | | |
| 4 | 1.82 | 1.78 | 1.92 | 2.12 | 2.36 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | | | | |
| 5 | 1.76 | 1.70 | 1.78 | 2.00 | 2.18 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | | | | |
| 6 | 1.82 | 1.70 | 1.78 | 1.90 | 2.00 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | | | | |
| 7 | 1.86 | 1.78 | 1.78 | 1.86 | 1.94 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | | | | |
| 8 | 2.00 | 1.92 | 1.92 | 1.90 | 1.96 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | | | | |
| 9 | 2.12 | 2.02 | 1.92 | 2.02 | 2.05 | 2.06 | 2.06 | 2.06 | 2.06 | 2.06 | | | | |
| 10 | 2.16 | 2.10 | 2.18 | 2.14 | 2.12 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | | | | |
| 11 | 2.22 | 2.16 | 2.20 | 2.24 | 2.22 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | | | | |
| Noon | 2.73 | 2.18 | 2.24 | 2.32 | 2.32 | 2.35 | 2.35 | 2.35 | 2.35 | 2.35 | | | | |
| 13 | 2.76 | 2.24 | 2.26 | 2.35 | 2.36 | 2.36 | 2.36 | 2.36 | 2.36 | 2.36 | | | | |
| 14 | 2.83 | 2.28 | 2.28 | 2.36 | 2.39 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | | | | |
| 15 | 2.88 | 2.32 | 2.32 | 2.38 | 2.38 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | | | | |
| 16 | 2.58 | 2.48 | 2.42 | 2.44 | 2.40 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | | | | |
| 17 | 2.72 | 2.63 | 2.58 | 2.54 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | | | | |
| 18 | 2.92 | 2.82 | 2.74 | 2.70 | 2.58 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | | | | |
| 19 | 3.07 | 3.02 | 2.96 | 2.88 | 2.74 | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | | | | |
| 20 | 3.16 | 3.18 | 3.14 | 3.08 | 2.92 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | | | | |
| 21 | 3.18 | 3.22 | 3.28 | 3.22 | 3.09 | 2.92 | 2.92 | 2.92 | 2.92 | 2.92 | | | | |
| 22 | 3.08 | 3.22 | 3.32 | 3.32 | 3.20 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | | | | |
| 23 | 2.94 | 3.12 | 3.29 | 3.32 | 3.24 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | | | | |
| Sum | 57.40 | | | | | | | | | | | | | |

Sum for Dec. 1915 = 1857.32. Divisor = (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month = 2.50 m

Tabulated by J. Lopez Date 12-7-16 Summed by J. Lopez Date 1-8-17

TIDES: HOURLY HEIGHTS

Station Manila Year 1975
 Observer Leopoldo Piller Lat. 14° 35' N Long. 120° 53' E
 Time Meridian 120° E Height datum is T50 (1101) which is 5.31 ft. below B.M. 11

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORIZONTAL SUM | | |
|---|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|----------------|----|--------|
| | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | | | | |
| | Dec | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | |
| DAY OF MONTH | 359 | | 360 | | 361 | | 362 | | 363 | | 364 | | 365 | | |
| Hour | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | |
| 0 | 3.00 | / | 2.80 | / | 2.58 | / | 2.46 | / | 2.41 | / | 2.44 | / | 2.45 | / | 16.12 |
| 1 | 3.00 | / | 2.82 | / | 2.62 | / | 2.44 | / | 2.35 | / | 2.26 | / | 2.22 | / | 17.73 |
| 2 | 2.96 | / | 2.82 | / | 2.62 | / | 2.44 | / | 2.32 | / | 2.20 | / | 2.08 | / | 17.44 |
| 3 | 2.80 | / | 2.80 | / | 2.62 | / | 2.44 | / | 2.31 | / | 2.14 | / | 1.98 | / | 17.16 |
| 4 | 2.60 | / | 2.70 | / | 2.62 | / | 2.50 | / | 2.46 | / | 2.15 | / | 1.94 | / | 16.95 |
| 5 | 2.40 | / | 2.54 | / | 2.54 | / | 2.54 | / | 2.42 | / | 2.20 | / | 1.90 | / | 16.60 |
| 6 | 2.20 | / | 2.36 | / | 2.44 | / | 2.48 | / | 2.42 | / | 2.26 | / | 2.02 | / | 16.16 |
| 7 | 2.00 | / | 2.20 | / | 2.32 | / | 2.40 | / | 2.42 | / | 2.30 | / | 2.08 | / | 15.75 |
| 8 | 1.98 | / | 2.10 | / | 2.20 | / | 2.32 | / | 2.40 | / | 2.32 | / | 2.16 | / | 15.52 |
| 9 | 1.90 | / | 2.05 | / | 2.13 | / | 2.26 | / | 2.34 | / | 2.34 | / | 2.20 | / | 15.36 |
| 10 | 1.90 | / | 2.06 | / | 2.12 | / | 2.24 | / | 2.36 | / | 2.38 | / | 2.25 | / | 15.37 |
| 11 | 1.85 | / | 2.12 | / | 2.16 | / | 2.26 | / | 2.36 | / | 2.38 | / | 2.26 | / | 15.57 |
| Noon | 2.18 | / | 2.24 | / | 2.28 | / | 2.32 | / | 2.34 | / | 2.10 | / | 2.26 | / | 14.08 |
| 13 | 2.30 | / | 2.35 | / | 2.40 | / | 2.46 | / | 2.48 | / | 2.48 | / | 2.32 | / | 16.71 |
| 14 | 2.37 | / | 2.44 | / | 2.52 | / | 2.56 | / | 2.64 | / | 2.66 | / | 2.40 | / | 17.57 |
| 15 | 2.42 | / | 2.52 | / | 2.64 | / | 2.74 | / | 2.76 | / | 2.76 | / | 2.53 | / | 18.39 |
| 16 | 2.44 | / | 2.58 | / | 2.70 | / | 2.80 | / | 2.90 | / | 2.90 | / | 2.68 | / | 19.00 |
| 17 | 2.44 | / | 2.58 | / | 2.74 | / | 2.92 | / | 3.00 | / | 3.00 | / | 2.57 | / | 19.60 |
| 18 | 2.40 | / | 2.56 | / | 2.72 | / | 2.94 | / | 3.04 | / | 3.12 | / | 2.98 | / | 19.84 |
| 19 | 2.46 | / | 2.52 | / | 2.64 | / | 2.90 | / | 3.08 | / | 3.14 | / | 3.08 | / | 19.82 |
| 20 | 2.48 | / | 2.48 | / | 2.56 | / | 2.84 | / | 3.06 | / | 3.14 | / | 3.14 | / | 19.70 |
| 21 | 2.52 | / | 2.46 | / | 2.44 | / | 2.74 | / | 2.92 | / | 3.08 | / | 3.12 | / | 19.32 |
| 22 | 2.63 | / | 2.50 | / | 2.47 | / | 2.62 | / | 2.75 | / | 2.90 | / | 3.00 | / | 18.87 |
| 23 | 2.72 | / | 2.52 | / | 2.47 | / | 2.52 | / | 2.57 | / | 2.68 | / | 2.74 | / | 18.26 |
| Sum | 58.43 | | 59.18 | | 59.59 | | 61.21 | | 62.18 | | 61.66 | | 58.74 | | 420.97 |
| Sum for | 2.44 | | 2.46 | | | | | | | | | | | | |
| Divisor—(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month= | | | | | | | | | | | | | | | |

Tabulated by Al Lopez Date 1-7-76 Summed by Al Khan Date 1-15-76

TIDES: HOURLY HEIGHTS

Station Manila Year 1975
 Observer Leopoldo Friles Lat. 14° 35' N Long. 120° 53' E
 Time Meridian 120° E Height datum is 790 (1962) which is 5.31 ft. below B. M.

| MONTH AND DAY | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | MONTH AND DAY | Month Day | MONTH AND DAY | HORIZONTAL SUM |
|---------------|------------|------------|------------|------------|------------------|-----------|-----------|---------------|-----------|---------------|----------------|
| | Dec 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | | |
| DAY OF SERIES | 352 | 353 | 354 | 355 | 356 | 357 | 358 | | | | |
| Hour | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet |
| 0 | 2.97 | 2.72 | 2.92 | 3.08 | 3.27 | 3.37 | 3.22 | 3.22 | 3.18 | 2.96 | 21.13 |
| 1 | 2.34 | 2.50 | 2.68 | 2.86 | 3.10 | 3.20 | 3.18 | 3.18 | 3.18 | 3.18 | 19.86 |
| 2 | 2.14 | 2.29 | 2.46 | 2.62 | 2.85 | 3.00 | 3.06 | 3.06 | 3.06 | 3.06 | 18.31 |
| 3 | 2.09 | 2.04 | 2.14 | 2.24 | 2.52 | 2.76 | 2.88 | 2.88 | 2.88 | 2.88 | 16.76 |
| 4 | 1.94 | 1.87 | 1.97 | 2.06 | 2.34 | 2.52 | 2.64 | 2.64 | 2.64 | 2.64 | 15.34 |
| 5 | 1.90 | 1.83 | 1.84 | 1.88 | 2.16 | 2.26 | 2.35 | 2.35 | 2.35 | 2.35 | 14.15 |
| 6 | 1.90 | 1.82 | 1.80 | 1.81 | 1.91 | 2.00 | 2.10 | 2.10 | 2.10 | 2.10 | 13.14 |
| 7 | 1.98 | 1.88 | 1.82 | 1.82 | 1.90 | 1.98 | 2.04 | 2.04 | 2.04 | 2.04 | 13.37 |
| 8 | 2.08 | 1.98 | 1.92 | 1.92 | 1.90 | 1.92 | 2.00 | 2.00 | 2.00 | 2.00 | 13.72 |
| 9 | 2.16 | 2.08 | 2.05 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 14.31 |
| 10 | 2.24 | 2.18 | 2.16 | 2.16 | 2.11 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 14.95 |
| 11 | 2.25 | 2.25 | 2.22 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 15.00 |
| Noon | 2.20 | 2.27 | 2.26 | 2.30 | 2.32 | 2.34 | 2.30 | 2.30 | 2.30 | 2.30 | 16.04 |
| 12 | 2.26 | 2.27 | 2.28 | 2.30 | 2.30 | 2.30 | 2.30 | 2.30 | 2.30 | 2.30 | 16.38 |
| 13 | 2.34 | 2.34 | 2.33 | 2.40 | 2.42 | 2.46 | 2.47 | 2.47 | 2.47 | 2.47 | 16.78 |
| 14 | 2.43 | 2.42 | 2.47 | 2.44 | 2.46 | 2.57 | 2.58 | 2.58 | 2.58 | 2.58 | 17.15 |
| 15 | 2.58 | 2.58 | 2.58 | 2.50 | 2.57 | 2.52 | 2.49 | 2.49 | 2.49 | 2.49 | 17.72 |
| 16 | 2.70 | 2.70 | 2.63 | 2.60 | 2.58 | 2.53 | 2.48 | 2.48 | 2.48 | 2.48 | 18.16 |
| 17 | 2.80 | 2.80 | 2.78 | 2.72 | 2.66 | 2.60 | 2.50 | 2.50 | 2.50 | 2.50 | 18.99 |
| 18 | 3.00 | 3.00 | 2.96 | 2.90 | 2.80 | 2.70 | 2.58 | 2.58 | 2.58 | 2.58 | 19.96 |
| 19 | 3.10 | 3.11 | 3.14 | 3.10 | 3.00 | 2.82 | 2.66 | 2.66 | 2.66 | 2.66 | 20.96 |
| 20 | 3.12 | 3.23 | 3.26 | 3.26 | 3.18 | 2.98 | 2.76 | 2.76 | 2.76 | 2.76 | 21.81 |
| 21 | 3.08 | 3.24 | 3.32 | 3.36 | 3.24 | 3.12 | 2.86 | 2.86 | 2.86 | 2.86 | 22.7 |
| 22 | 2.94 | 3.14 | 3.24 | 3.30 | 3.34 | 3.20 | 2.96 | 2.96 | 2.96 | 2.96 | 22.19 |
| 23 | | | | | | | | | | | |
| Sum | 58.20 | 58.56 | 59.13 | 59.94 | 61.31 | 61.51 | 60.72 | 60.72 | 60.72 | 60.72 | 619.37 |
| Sum for | 2.42 | 2.44 | 2.46 | 2.50 | 2.52 | 2.56 | 2.53 | 2.53 | 2.53 | 2.53 | |
| Divisor | (28d) 672; | (29d) 696; | (30d) 720; | (31d) 744. | Mean for month = | | | | | | |

Tabulated by Ad Lopez Date 1-7-76 Summed by Wokan Date 1-15-76
 9-10

TIDES; HOURLY HEIGHTS

Station Mamula Year 1975
 Observer Leopoldo Sutil Lat. 14° 35' N
 Time Meridian 120° E Height datum is 180 (1901) which is 17.537 ft 5.34 m N. below B. M. 4A
 Long. 120° 58' E

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | MONTHIAL SUM | | | |
|---------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------------|----|--------|--|
| | Dec | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | |
| DAY OF BRASS | 345 | | 346 | | 347 | | 348 | | 349 | | 350 | | 351 | | | |
| Hour | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | |
| 0 | 2.88 | | 2.72 | | 2.56 | | 2.40 | | 2.25 | | 2.10 | | 2.00 | | 17.67 | |
| 1 | 2.94 | | 2.75 | | 2.55 | | 2.40 | | 2.30 | | 2.20 | | 2.10 | | 17.45 | |
| 2 | 2.94 | | 2.78 | | 2.56 | | 2.40 | | 2.28 | | 2.18 | | 2.10 | | 17.26 | |
| 3 | 2.90 | | 2.78 | | 2.59 | | 2.44 | | 2.28 | | 2.15 | | 2.06 | | 17.20 | |
| 4 | 2.82 | | 2.74 | | 2.59 | | 2.42 | | 2.26 | | 2.14 | | 2.00 | | 16.99 | |
| 5 | 2.70 | | 2.68 | | 2.56 | | 2.38 | | 2.26 | | 2.14 | | 2.04 | | 16.76 | |
| 6 | 2.54 | | 2.58 | | 2.50 | | 2.36 | | 2.29 | | 2.18 | | 2.07 | | 16.52 | |
| 7 | 2.38 | | 2.44 | | 2.40 | | 2.36 | | 2.30 | | 2.22 | | 2.14 | | 16.24 | |
| 8 | 2.23 | | 2.32 | | 2.36 | | 2.33 | | 2.32 | | 2.24 | | 2.20 | | 16.00 | |
| 9 | 2.16 | | 2.23 | | 2.28 | | 2.27 | | 2.30 | | 2.26 | | 2.27 | | 15.77 | |
| 10 | 2.13 | | 2.18 | | 2.20 | | 2.22 | | 2.29 | | 2.27 | | 2.30 | | 15.59 | |
| 11 | 2.14 | | 2.16 | | 2.18 | | 2.19 | | 2.27 | | 2.27 | | 2.30 | | 15.53 | |
| Noon | 2.22 | | 2.20 | | 2.20 | | 2.14 | | 2.28 | | 2.32 | | 2.30 | | 15.71 | |
| 13 | 2.27 | | 2.26 | | 2.24 | | 2.23 | | 2.32 | | 2.30 | | 2.30 | | 16.02 | |
| 14 | 2.36 | | 2.35 | | 2.36 | | 2.34 | | 2.40 | | 2.44 | | 2.40 | | 16.65 | |
| 15 | 2.46 | | 2.44 | | 2.46 | | 2.46 | | 2.54 | | 2.57 | | 2.52 | | 17.40 | |
| 16 | 2.54 | | 2.50 | | 2.50 | | 2.60 | | 2.67 | | 2.68 | | 2.64 | | 18.14 | |
| 17 | 2.58 | | 2.52 | | 2.61 | | 2.66 | | 2.79 | | 2.82 | | 2.78 | | 18.80 | |
| 18 | 2.60 | | 2.48 | | 2.68 | | 2.72 | | 2.86 | | 2.91 | | 2.90 | | 19.32 | |
| 19 | 2.60 | | 2.60 | | 2.70 | | 2.76 | | 2.90 | | 2.98 | | 2.90 | | 18.87 | |
| 20 | 2.60 | | 2.60 | | 2.68 | | 2.74 | | 2.90 | | 2.99 | | 3.07 | | 19.58 | |
| 21 | 2.60 | | 2.58 | | 2.64 | | 2.70 | | 2.85 | | 2.92 | | 3.06 | | 19.35 | |
| 22 | 2.63 | | 2.57 | | 2.52 | | 2.58 | | 2.74 | | 2.82 | | 3.07 | | 18.87 | |
| 23 | 2.68 | | 2.52 | | 2.44 | | 2.46 | | 2.50 | | 2.62 | | 2.80 | | 18.08 | |
| Sum | 60.90 | | 60.17 | | 59.46 | | 58.63 | | 59.31 | | 59.12 | | 58.23 | | 415.82 | |
| Sum for | 2.54 | | 2.50 | | | | | | | | | | | | | |

Divisor = (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month =

Tabulated by _____ Date _____ Summed by Neokan Date 4-15-76

TIDES: HOURLY HEIGHTS

DEPARTMENT OF NATIONAL DEFENSE
BUREAU OF COAST AND GEODETIC SURVEY

Station Manila Year 1975
 Observer Leopoldo Guillera Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is PSD (1901) which is 17.32 ft 6.34 m ft. below B. M. 4A

| MONTH AND DAY | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | HORIZONTAL SUN |
|---------------|-----------|-----------|---|-----------|------------------|-----------|-----------|-----------|-----------|----------------|
| | Dec. 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | |
| DAY OF SERIES | 338 | 339 | 340 | 341 | 342 | 343 | 344 | | | |
| Hour | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet |
| 0 | 2.80 | 3.06 | 3.20 | 3.25 | 3.26 | 3.15 | 3.00 | 2.82 | 21.82 | |
| 1 | 2.66 | 2.80 | 2.96 | 3.11 | 3.18 | 3.15 | 3.06 | 2.87 | 20.87 | |
| 2 | 2.28 | 2.50 | 2.66 | 2.88 | 3.04 | 3.10 | 3.02 | 19.46 | 19.46 | |
| 3 | 2.10 | 2.21 | 2.36 | 2.60 | 2.81 | 2.96 | 2.96 | 18.60 | 18.60 | |
| 4 | 1.96 | 1.98 | 2.10 | 2.34 | 2.54 | 2.74 | 2.82 | 16.48 | 16.48 | |
| 5 | 1.88 | 1.84 | 1.94 | 2.08 | 2.29 | 2.47 | 2.62 | 15.12 | 15.12 | |
| 6 | 1.86 | 1.80 | 1.84 | 1.88 | 2.06 | 2.24 | 2.39 | 14.07 | 14.07 | |
| 7 | 1.92 | 1.80 | 1.83 | 1.78 | 1.92 | 2.10 | 2.21 | 13.57 | 13.57 | |
| 8 | 2.07 | 1.90 | 1.86 | 1.78 | 1.88 | 2.01 | 2.17 | 13.62 | 13.62 | |
| 9 | 2.20 | 2.02 | 1.96 | 1.86 | 1.89 | 2.02 | 2.08 | 14.03 | 14.03 | |
| 10 | 2.32 | 2.13 | 2.09 | 1.94 | 1.95 | 2.04 | 2.10 | 14.57 | 14.57 | |
| 11 | 2.38 | 2.27 | 2.22 | 2.06 | 2.05 | 2.10 | 2.12 | 15.18 | 15.18 | |
| Noon | 2.40 | 2.35 | 2.32 | 2.16 | 2.12 | 2.14 | 2.16 | 15.69 | 15.69 | |
| 12 | 2.39 | 2.37 | 2.36 | 2.25 | 2.21 | 2.26 | 2.25 | 16.09 | 16.09 | |
| 13 | 2.40 | 2.38 | 2.36 | 2.28 | 2.30 | 2.36 | 2.35 | 16.43 | 16.43 | |
| 14 | 2.46 | 2.38 | 2.36 | 2.32 | 2.34 | 2.40 | 2.44 | 16.70 | 16.70 | |
| 15 | 2.58 | 2.46 | 2.41 | 2.38 | 2.38 | 2.44 | 2.51 | 17.16 | 17.16 | |
| 16 | 2.74 | 2.62 | 2.52 | 2.44 | 2.41 | 2.46 | 2.53 | 17.71 | 17.71 | |
| 17 | 2.92 | 2.82 | 2.66 | 2.54 | 2.48 | 2.48 | 2.54 | 18.44 | 18.44 | |
| 18 | 3.12 | 3.04 | 2.84 | 2.66 | 2.60 | 2.57 | 2.52 | 19.36 | 19.36 | |
| 19 | 3.26 | 3.23 | 3.02 | 2.82 | 2.75 | 2.62 | 2.60 | 20.29 | 20.29 | |
| 20 | 3.34 | 3.34 | 3.18 | 3.00 | 2.88 | 2.74 | 2.66 | 21.14 | 21.14 | |
| 21 | 3.34 | 3.37 | 3.28 | 3.18 | 3.02 | 2.86 | 2.72 | 21.77 | 21.77 | |
| 22 | 3.24 | 3.31 | 3.30 | 3.24 | 3.12 | 2.98 | 2.80 | 22.00 | 22.00 | |
| 23 | 3.24 | 3.31 | 3.30 | 3.24 | 3.12 | 2.98 | 2.80 | 22.00 | 22.00 | |
| Sum | 60.63 | 59.99 | 59.64 | 58.94 | 58.49 | 60.40 | 60.66 | 419.58 | 419.58 | |
| Sum for | 2.52 | = 2.50 | Divisor = (28d) 672; (29d) 696; (30d) 720; (31d) 744. | | Mean for month = | | | | | |

Tabulated by M. Lopez Date 1-7-76 Summed by Neckan Date 1-15-76

TIDES: HOURLY HEIGHTS

DEPARTMENT OF NATIONAL DEFENSE
BUREAU OF COAST AND GEODETIC SURVEY

Station Manila

Year 1913

Observer L. J. F. Filler

Lat. 14° 35' N

Long. 120° 58' E

Time Meridian 120° E Height datum is 750 (1900) which is 17.597 ft. 5.27 m. ft. below B. M. 40

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORI- ZONTAL SUM |
|---|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|------------------|
| | Nov. | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | | 25 | |
| DAY OF SERIES | 324 | | 325 | | 326 | | 327 | | 328 | | 329 | | 330 | | |
| Hour | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | Feet |
| 0 | 2.81 | / | 2.94 | / | 3.06 | / | 3.16 | / | 3.22 | / | 3.18 | / | 3.06 | / | 2.94 |
| 1 | 2.56 | / | 2.77 | / | 2.86 | / | 2.98 | / | 3.12 | / | 3.15 | / | 3.08 | / | 2.97 |
| 2 | 2.34 | / | 2.48 | / | 2.60 | / | 2.78 | / | 2.94 | / | 3.04 | / | 3.06 | / | 2.94 |
| 3 | 2.16 | / | 2.26 | / | 2.37 | / | 2.52 | / | 2.72 | / | 2.88 | / | 2.98 | / | 2.82 |
| 4 | 2.02 | / | 2.07 | / | 2.08 | / | 2.26 | / | 2.48 | / | 2.68 | / | 2.80 | / | 2.77 |
| 5 | 1.96 | / | 1.90 | / | 1.94 | / | 2.04 | / | 2.22 | / | 2.42 | / | 2.56 | / | 2.76 |
| 6 | 1.92 | / | 1.92 | / | 1.85 | / | 2.87 | / | 2.02 | / | 2.18 | / | 2.34 | / | 2.52 |
| 7 | 1.97 | / | 1.95 | / | 1.86 | / | 1.82 | / | 1.88 | / | 2.02 | / | 2.16 | / | 2.32 |
| 8 | 2.08 | / | 2.01 | / | 1.97 | / | 1.84 | / | 1.85 | / | 1.90 | / | 2.00 | / | 2.10 |
| 9 | 2.18 | / | 2.10 | / | 1.98 | / | 1.97 | / | 1.88 | / | 1.88 | / | 1.94 | / | 2.02 |
| 10 | 2.28 | / | 2.19 | / | 2.10 | / | 2.00 | / | 1.98 | / | 1.97 | / | 1.96 | / | 2.02 |
| 11 | 2.33 | / | 2.28 | / | 2.22 | / | 2.10 | / | 2.06 | / | 2.00 | / | 1.94 | / | 2.00 |
| Noon | 2.34 | / | 2.34 | / | 2.30 | / | 2.20 | / | 2.16 | / | 2.08 | / | 2.06 | / | 2.00 |
| 13 | 2.34 | / | 2.36 | / | 2.34 | / | 2.26 | / | 2.24 | / | 2.16 | / | 2.14 | / | 2.08 |
| 14 | 2.36 | / | 2.36 | / | 2.35 | / | 2.30 | / | 2.30 | / | 2.25 | / | 2.22 | / | 2.18 |
| 15 | 2.42 | / | 2.38 | / | 2.36 | / | 2.34 | / | 2.34 | / | 2.32 | / | 2.32 | / | 2.28 |
| 16 | 2.48 | / | 2.44 | / | 2.42 | / | 2.40 | / | 2.38 | / | 2.36 | / | 2.34 | / | 2.32 |
| 17 | 2.60 | / | 2.56 | / | 2.52 | / | 2.50 | / | 2.48 | / | 2.40 | / | 2.40 | / | 2.38 |
| 18 | 2.74 | / | 2.77 | / | 2.64 | / | 2.59 | / | 2.57 | / | 2.40 | / | 2.40 | / | 2.38 |
| 19 | 2.90 | / | 2.84 | / | 2.80 | / | 2.72 | / | 2.59 | / | 2.52 | / | 2.46 | / | 2.40 |
| 20 | 3.07 | / | 3.04 | / | 2.98 | / | 2.88 | / | 2.74 | / | 2.62 | / | 2.54 | / | 2.48 |
| 21 | 3.14 | / | 3.12 | / | 3.12 | / | 3.02 | / | 2.88 | / | 2.74 | / | 2.62 | / | 2.58 |
| 22 | 3.16 | / | 3.18 | / | 3.21 | / | 3.18 | / | 3.05 | / | 2.88 | / | 2.74 | / | 2.68 |
| 23 | 3.08 | / | 3.16 | / | 3.23 | / | 3.24 | / | 3.15 | / | 2.98 | / | 2.84 | / | 2.78 |
| Sum | 59.24 | | 59.13 | | 59.04 | | 58.97 | | 59.13 | | 59.11 | | 58.70 | | 58.71 |
| Sum for | 2.46 | | 2.45 | | 2.44 | | 2.43 | | 2.44 | | 2.43 | | 2.42 | | 2.41 |
| Divisor: (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month: 2.41 | | | | | | | | | | | | | | | |

Tabulated by Ady Date 12-10-13 Summed by Ady Date 12-10-13

TIDES: HOURLY HEIGHTS

Station Manila Year 1975
 Observer Seppoldo Miller Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is 750 (1901) which is 17.337 ft. 2.33 m. N. below B. M.

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HOURLY AVERAGE SUM | | |
|---------------|-------|-----|-------|-----|------------------|-----|-------|-----|-------|-----|-------|-----|--------------------|---|-------|
| | Jan | 26 | Jan | 27 | Jan | 28 | Jan | 29 | Jan | 30 | Dec | 1 | | 2 | |
| DAY OF SERIES | 331 | | 332 | | 333 ^S | | 334 | | 335 | | 336 | | 337 | | |
| Hour | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | Feet | | |
| 0 | 2.92 | / | 2.75 | / | 2.60 | / | 2.46 | / | 2.46 | / | 2.56 | / | 2.72 | / | 17.22 |
| 1 | 2.90 | / | 2.80 | / | 2.65 | / | 2.44 | / | 2.34 | / | 2.58 | / | 2.78 | / | 17.22 |
| 2 | 2.90 | / | 2.85 | / | 2.72 | / | 2.47 | / | 2.30 | / | 2.24 | / | 2.20 | / | 17.22 |
| 3 | 2.92 | / | 2.86 | / | 2.77 | / | 2.52 | / | 2.28 | / | 2.14 | / | 2.08 | / | 17.22 |
| 4 | 2.90 | / | 2.84 | / | 2.78 | / | 2.56 | / | 2.30 | / | 2.10 | / | 2.00 | / | 17.22 |
| 5 | 2.66 | / | 2.74 | / | 2.74 | / | 2.58 | / | 2.36 | / | 2.12 | / | 1.98 | / | 17.22 |
| 6 | 2.44 | / | 2.58 | / | 2.68 | / | 2.60 | / | 2.40 | / | 2.22 | / | 2.06 | / | 17.22 |
| 7 | 2.25 | / | 2.42 | / | 2.60 | / | 2.60 | / | 2.44 | / | 2.24 | / | 2.10 | / | 17.22 |
| 8 | 2.10 | / | 2.30 | / | 2.48 | / | 2.55 | / | 2.46 | / | 2.44 | / | 2.30 | / | 17.22 |
| 9 | 2.02 | / | 2.18 | / | 2.40 | / | 2.46 | / | 2.46 | / | 2.48 | / | 2.42 | / | 17.22 |
| 10 | 1.96 | / | 2.08 | / | 2.26 | / | 2.36 | / | 2.44 | / | 2.48 | / | 2.48 | / | 17.22 |
| 11 | 1.98 | / | 2.06 | / | 2.16 | / | 2.28 | / | 2.38 | / | 2.44 | / | 2.48 | / | 17.22 |
| Noon | 2.08 | / | 2.08 | / | 2.16 | / | 2.25 | / | 2.34 | / | 2.40 | / | 2.44 | / | 17.22 |
| 13 | 2.18 | / | 2.18 | / | 2.24 | / | 2.26 | / | 2.34 | / | 2.42 | / | 2.42 | / | 17.22 |
| 14 | 2.25 | / | 2.28 | / | 2.36 | / | 2.36 | / | 2.38 | / | 2.46 | / | 2.44 | / | 17.22 |
| 15 | 2.36 | / | 2.38 | / | 2.48 | / | 2.48 | / | 2.46 | / | 2.54 | / | 2.52 | / | 17.22 |
| 16 | 2.44 | / | 2.48 | / | 2.58 | / | 2.62 | / | 2.64 | / | 2.66 | / | 2.72 | / | 17.22 |
| 17 | 2.50 | / | 2.54 | / | 2.60 | / | 2.76 | / | 2.80 | / | 2.84 | / | 2.86 | / | 17.22 |
| 18 | 2.52 | / | 2.58 | / | 2.70 | / | 2.85 | / | 2.92 | / | 3.04 | / | 3.04 | / | 17.22 |
| 19 | 2.54 | / | 2.60 | / | 2.74 | / | 2.91 | / | 3.01 | / | 3.18 | / | 3.24 | / | 17.22 |
| 20 | 2.56 | / | 2.60 | / | 2.74 | / | 2.91 | / | 3.02 | / | 3.24 | / | 3.20 | / | 17.22 |
| 21 | 2.60 | / | 2.60 | / | 2.72 | / | 2.86 | / | 3.02 | / | 3.24 | / | 3.32 | / | 17.22 |
| 22 | 2.64 | / | 2.60 | / | 2.62 | / | 2.70 | / | 2.94 | / | 3.12 | / | 3.26 | / | 17.22 |
| 23 | 2.70 | / | 2.60 | / | 2.54 | / | 2.62 | / | 2.74 | / | 2.85 | / | 3.10 | / | 17.22 |
| Sum | 54.34 | | 54.9 | | 54.9 | | 54.9 | | 54.9 | | 54.9 | | 54.9 | | 17.22 |

Sum for Jan 1975 = 1820.31 Divisor = (2nd) 672; (2nd) 696; (3rd) 720; (4th) 744. Mean for month = 27.06

Tabulated by A. Lopez Date 12-10-75 Summed by A. Lopez Date 12-10-75
 9-10
 75-10-10
 Dec.

TIDES: HOURLY HEIGHTS

Station M Manila Year 1975
 Observer Leopoldo Frilles Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 126° E Height datum is TSC(1901) which is 17.537 ft below B. M. L 1
5.34 ft

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | MONTHLY SUM | |
|---------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------------|---|
| | Oct. | 29 | | 30 | | 31 | Nov. | 1 | | 2 | | 3 | | 4 |
| DAY OF SERIES | 303 | | 314 | | 325 | | 336 | | 347 | | 358 | | | |
| Hour | | | | | | | | | | | | | | |
| 0 | 2.86 | | 2.97 | | 2.68 | | 2.56 | | 2.28 | | 2.68 | | 2.86 | |
| 1 | 2.97 | | 2.82 | | 2.66 | | 2.46 | | 2.44 | | 2.48 | | 2.62 | |
| 2 | 3.02 | | 2.92 | | 2.70 | | 2.42 | | 2.32 | | 2.36 | | 2.58 | |
| 3 | 3.08 | | 2.97 | | 2.74 | | 2.44 | | 2.24 | | 2.18 | | 2.16 | |
| 4 | 3.08 | | 3.00 | | 2.85 | | 2.62 | | 2.28 | | 2.12 | | 2.02 | |
| 5 | 3.02 | | 3.00 | | 2.92 | | 2.62 | | 2.28 | | 2.10 | | 1.90 | |
| 6 | 2.92 | | 2.98 | | 2.96 | | 2.71 | | 2.32 | | 2.22 | | 1.98 | |
| 7 | 2.77 | | 2.90 | | 2.96 | | 2.76 | | 2.60 | | 2.38 | | 2.10 | |
| 8 | 2.58 | | 2.76 | | 2.92 | | 2.80 | | 2.72 | | 2.52 | | 2.24 | |
| 9 | 2.40 | | 2.62 | | 2.82 | | 2.80 | | 2.75 | | 2.64 | | 2.38 | |
| 10 | 2.25 | | 2.46 | | 2.68 | | 2.76 | | 2.68 | | 2.66 | | 2.52 | |
| 11 | 2.16 | | 2.30 | | 2.50 | | 2.88 | | 2.56 | | 2.64 | | 2.54 | |
| Noon | 2.14 | | 2.22 | | 2.36 | | 2.70 | | 2.40 | | 2.53 | | 2.40 | |
| 12 | 2.16 | | 2.18 | | 2.28 | | 2.37 | | 2.34 | | 2.52 | | 2.54 | |
| 13 | 2.26 | | 2.23 | | 2.28 | | 2.34 | | 2.37 | | 2.48 | | 2.50 | |
| 14 | 2.34 | | 2.30 | | 2.23 | | 2.36 | | 2.42 | | 2.46 | | 2.48 | |
| 15 | 2.44 | | 2.42 | | 2.44 | | 2.40 | | 2.44 | | 2.26 | | 2.34 | |
| 16 | 2.54 | | 2.52 | | 2.54 | | 2.60 | | 2.64 | | 2.64 | | 2.62 | |
| 17 | 2.62 | | 2.62 | | 2.64 | | 2.72 | | 2.72 | | 2.80 | | 2.82 | |
| 18 | 2.66 | | 2.70 | | 2.72 | | 2.84 | | 2.88 | | 2.98 | | 2.98 | |
| 19 | 2.71 | | 2.74 | | 2.77 | | 2.90 | | 3.01 | | 3.10 | | 3.14 | |
| 20 | 2.72 | | 2.75 | | 2.78 | | 2.92 | | 3.08 | | 3.16 | | 3.22 | |
| 21 | 2.72 | | 2.74 | | 2.74 | | 2.88 | | 3.02 | | 3.10 | | 3.22 | |
| 22 | 2.72 | | 2.70 | | 2.66 | | 2.76 | | 2.88 | | 3.06 | | 3.18 | |
| 23 | | | | | | | | | | | | | | |
| Sum | 6314 | | 6364 | | 6392 | | | | | | | | | |

Sum for Oct. 1975 = 1957.46 Divisor = (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month = 2.63

Tabulated by Adopay Date 11-10-75 Summed by K. S. S. S. Date 11-10-75
 M.C.W. is 5.74 ft (1.75 m.) above zero Tide Staff 1901

TIDES: HOURLY HEIGHTS

Station Manila Year 1975
 Observer Leopoldo Frillas Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is TSD (1901) which is 5.34 ft below B. M.

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Hori- zontal SUM |
|---------------|-------|-------|--|-------|-------|-------|-------|-------|-------|------|-------|------|------------------------|
| | Oct. | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | | | | |
| DAY OF SERIES | 116 | | 117 | | 118 | | 119 | | 120 | | 121 | | |
| Hour | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | |
| 0 | 3.17 | 3.17 | 3.20 | 3.20 | 3.17 | 3.14 | 3.04 | 2.98 | | | | | |
| 1 | 2.94 | 3.00 | 3.14 | 3.13 | 3.14 | 3.14 | 3.10 | 3.10 | | | | | |
| 2 | 2.76 | 2.82 | 2.94 | 2.98 | 3.12 | 3.14 | 3.14 | 3.14 | | | | | |
| 3 | 2.56 | 2.60 | 2.74 | 2.84 | 3.00 | 3.10 | 3.14 | 3.14 | | | | | |
| 4 | 2.40 | 2.36 | 2.53 | 2.64 | 2.82 | 3.00 | 3.08 | 3.08 | | | | | |
| 5 | 2.25 | 2.18 | 2.34 | 2.40 | 2.60 | 2.84 | 2.96 | 2.96 | | | | | |
| 6 | 2.22 | 2.08 | 2.17 | 2.20 | 2.39 | 2.62 | 2.78 | 2.78 | | | | | |
| 7 | 2.20 | 2.10 | 2.06 | 2.05 | 2.20 | 2.40 | 2.60 | 2.60 | | | | | |
| 8 | 2.40 | 2.16 | 2.04 | 1.99 | 2.08 | 2.22 | 2.40 | 2.40 | | | | | |
| 9 | 2.50 | 2.24 | 2.08 | 2.08 | 2.04 | 2.06 | 2.24 | 2.24 | | | | | |
| 10 | 2.60 | 2.33 | 2.22 | 2.10 | 2.04 | 2.04 | 2.12 | 2.12 | | | | | |
| 11 | 2.67 | 2.42 | 2.34 | 2.20 | 2.09 | 2.04 | 2.08 | 2.08 | | | | | |
| Noon | 2.84 | 2.54 | 2.42 | 2.30 | 2.18 | 2.12 | 2.13 | 2.13 | | | | | |
| 13 | 2.83 | 2.58 | 2.50 | 2.38 | 2.25 | 2.20 | 2.20 | 2.20 | | | | | |
| 14 | 2.62 | 2.60 | 2.55 | 2.44 | 2.34 | 2.27 | 2.27 | 2.27 | | | | | |
| 15 | 2.61 | 2.58 | 2.57 | 2.48 | 2.42 | 2.34 | 2.34 | 2.34 | | | | | |
| 16 | 2.61 | 2.57 | 2.59 | 2.52 | 2.46 | 2.41 | 2.40 | 2.40 | | | | | |
| 17 | 2.64 | 2.59 | 2.62 | 2.56 | 2.52 | 2.52 | 2.48 | 2.48 | | | | | |
| 18 | 2.71 | 2.66 | 2.65 | 2.58 | 2.56 | 2.55 | 2.54 | 2.54 | | | | | |
| 19 | 2.82 | 2.76 | 2.72 | 2.64 | 2.60 | 2.62 | 2.60 | 2.60 | | | | | |
| 20 | 2.94 | 2.88 | 2.85 | 2.74 | 2.70 | 2.67 | 2.64 | 2.64 | | | | | |
| 21 | 3.10 | 3.01 | 3.00 | 2.90 | 2.79 | 2.74 | 2.68 | 2.68 | | | | | |
| 22 | 3.17 | 3.12 | 3.14 | 3.02 | 2.92 | 2.84 | 2.72 | 2.72 | | | | | |
| 23 | 3.15 | 3.18 | 3.20 | 3.14 | 3.04 | 2.94 | 2.78 | 2.78 | | | | | |
| Sum | 64.32 | 62.47 | 62.61 | 61.45 | 61.49 | 61.99 | 62.46 | 62.77 | | | | | |
| Sum for | 267 | 260 | Divisor = (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month = | | | | | | | | | | |

Tabulated by Alopez Date 11-10-75 Summed by Alopez Date 11-14-75

TIDES: HOURLY HEIGHTS

Station Manila Year 1975
 Observer Leopoldo Arilles Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 170° E Height datum is Bo (190) which is 17.537 ft. below B. M. 4a

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORIZONTAL SUM |
|---------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|-------|------|----------------|
| | Oct. | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | | | | |
| Hour | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet |
| 0 | 2.70 | 2.67 | 2.56 | 2.59 | 2.74 | 2.84 | 3.05 | 19.10 | | | | | |
| 1 | 2.76 | 2.63 | 2.53 | 2.54 | 2.61 | 2.68 | 2.86 | 18.61 | | | | | |
| 2 | 2.82 | 2.65 | 2.53 | 2.49 | 2.47 | 2.56 | 2.66 | 18.18 | | | | | |
| 3 | 2.90 | 2.71 | 2.56 | 2.46 | 2.42 | 2.45 | 2.52 | 18.00 | | | | | |
| 4 | 2.96 | 2.79 | 2.64 | 2.52 | 2.43 | 2.39 | 2.38 | 18.09 | | | | | |
| 5 | 2.98 | 2.86 | 2.72 | 2.58 | 2.52 | 2.40 | 2.32 | 18.38 | | | | | |
| 6 | 3.00 | 2.92 | 2.82 | 2.70 | 2.64 | 2.48 | 2.46 | 18.46 | | | | | |
| 7 | 2.90 | 2.94 | 2.88 | 2.80 | 2.72 | 2.58 | 2.45 | 19.32 | | | | | |
| 8 | 2.80 | 2.92 | 2.90 | 2.84 | 2.82 | 2.70 | 2.55 | 19.54 | | | | | |
| 9 | 2.70 | 2.82 | 2.86 | 2.85 | 2.88 | 2.78 | 2.65 | 19.54 | | | | | |
| 10 | 2.58 | 2.72 | 2.77 | 2.82 | 2.88 | 2.90 | 2.74 | 19.41 | | | | | |
| 11 | 2.44 | 2.60 | 2.66 | 2.78 | 2.88 | 2.90 | 2.86 | 19.17 | | | | | |
| Noon | 2.31 | 2.46 | 2.54 | 2.70 | 2.79 | 2.82 | 2.83 | 18.45 | | | | | |
| 13 | 2.21 | 2.34 | 2.42 | 2.58 | 2.70 | 2.78 | 2.86 | 17.87 | | | | | |
| 14 | 2.16 | 2.26 | 2.34 | 2.47 | 2.64 | 2.65 | 2.71 | 17.13 | | | | | |
| 15 | 2.18 | 2.24 | 2.28 | 2.38 | 2.58 | 2.62 | 2.64 | 16.92 | | | | | |
| 16 | 2.28 | 2.30 | 2.34 | 2.42 | 2.58 | 2.66 | 2.64 | 17.22 | | | | | |
| 17 | 2.38 | 2.40 | 2.44 | 2.54 | 2.60 | 2.74 | 2.73 | 17.82 | | | | | |
| 18 | 2.50 | 2.49 | 2.50 | 2.71 | 2.72 | 2.82 | 2.79 | 18.59 | | | | | |
| 19 | 2.57 | 2.60 | 2.66 | 2.80 | 2.86 | 2.90 | 2.89 | 19.28 | | | | | |
| 20 | 2.60 | 2.65 | 2.72 | 2.88 | 2.98 | 3.04 | 3.04 | 19.87 | | | | | |
| 21 | 2.62 | 2.68 | 2.74 | 2.92 | 3.04 | 3.14 | 3.16 | 20.30 | | | | | |
| 22 | 2.63 | 2.66 | 2.72 | 2.92 | 3.04 | 3.20 | 3.20 | 20.57 | | | | | |
| 23 | 2.63 | 2.61 | 2.66 | 2.85 | 2.96 | 3.10 | 3.22 | 20.65 | | | | | |
| Sum. | 62.71 | 62.87 | 62.84 | 64.12 | 65.51 | 66.11 | 66.03 | 452.19 | | | | | |
| Sum for | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | | | | | |

Divisor--(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month--

Tabulated by Adapoy Date 11-12-75 Summed by Adapoy Date 11-14-75

TIDES: HOURLY HEIGHTS

Station Mumla Year 1975
 Observer Leopoldo Kroll Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is TLO (1901) which is 17.53 ft ft. below B. M. A

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORI- ZONTAL SUM |
|---------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|------------------------|
| | Oct | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | |
| DAY OF SERIES | 25 | | 28 | | 31 | | 34 | | 37 | | 40 | | 43 | | |
| Hour | ft | | ft | | ft | | ft | | ft | | ft | | ft | | ft |
| 0 | 3.17 | | 3.20 | | 3.20 | | 3.17 | | 3.09 | | 2.91 | | 2.86 | | 71.55 |
| 1 | 3.02 | | 3.17 | | 3.22 | | 3.27 | | 3.15 | | 3.06 | | 2.96 | | 71.80 |
| 2 | 2.84 | | 3.06 | | 3.16 | | 3.22 | | 3.22 | | 3.14 | | 3.00 | | 71.67 |
| 3 | 2.61 | | 2.85 | | 3.03 | | 3.14 | | 3.22 | | 3.17 | | 3.06 | | 71.88 |
| 4 | 2.36 | | 2.62 | | 2.84 | | 3.02 | | 3.16 | | 3.14 | | 3.08 | | 20.24 |
| 5 | 2.18 | | 2.36 | | 2.62 | | 2.85 | | 3.02 | | 3.10 | | 3.06 | | 19.16 |
| 6 | 2.04 | | 2.17 | | 2.36 | | 2.62 | | 2.80 | | 2.98 | | 3.00 | | 17.97 |
| 7 | 2.02 | | 2.04 | | 2.16 | | 2.40 | | 2.60 | | 2.78 | | 2.86 | | 16.86 |
| 8 | 2.05 | | 2.02 | | 2.02 | | 2.22 | | 2.42 | | 2.60 | | 2.74 | | 16.65 |
| 9 | 2.16 | | 2.02 | | 1.98 | | 2.09 | | 2.20 | | 2.48 | | 2.56 | | 15.58 |
| 10 | 2.30 | | 2.12 | | 2.04 | | 2.08 | | 2.16 | | 2.30 | | 2.42 | | 15.42 |
| 11 | 2.45 | | 2.23 | | 2.12 | | 2.08 | | 2.12 | | 2.22 | | 2.28 | | 15.48 |
| Noon | 2.56 | | 2.34 | | 2.20 | | 2.14 | | 2.12 | | 2.15 | | 2.18 | | 15.69 |
| 13 | 2.62 | | 2.46 | | 2.28 | | 2.20 | | 2.18 | | 2.16 | | 2.16 | | 16.00 |
| 14 | 2.62 | | 2.50 | | 2.37 | | 2.29 | | 2.28 | | 2.20 | | 2.14 | | 16.40 |
| 15 | 2.58 | | 2.52 | | 2.42 | | 2.40 | | 2.36 | | 2.30 | | 2.22 | | 16.78 |
| 16 | 2.50 | | 2.52 | | 2.48 | | 2.48 | | 2.45 | | 2.40 | | 2.32 | | 17.15 |
| 17 | 2.52 | | 2.52 | | 2.52 | | 2.52 | | 2.55 | | 2.47 | | 2.40 | | 17.48 |
| 18 | 2.52 | | 2.54 | | 2.52 | | 2.54 | | 2.58 | | 2.52 | | 2.50 | | 17.76 |
| 19 | 2.63 | | 2.59 | | 2.52 | | 2.58 | | 2.60 | | 2.58 | | 2.52 | | 18.04 |
| 20 | 2.75 | | 2.66 | | 2.62 | | 2.62 | | 2.64 | | 2.63 | | 2.60 | | 18.52 |
| 21 | 2.92 | | 2.80 | | 2.75 | | 2.70 | | 2.69 | | 2.70 | | 2.63 | | 19.19 |
| 22 | 3.06 | | 2.99 | | 2.92 | | 2.84 | | 2.78 | | 2.76 | | 2.66 | | 20.01 |
| 23 | 3.16 | | 3.14 | | 3.08 | | 2.98 | | 2.90 | | 2.81 | | 2.67 | | 20.74 |
| Sum | 61.57 | | 61.44 | | 61.43 | | 61.38 | | 61.33 | | 61.37 | | 62.92 | | 455.60 |
| Sum for | 2.52 | | 2.52 | | | | | | | | | | | | |

Tabulated by Altophy Date 11-13-75 Summed by Altophy Date 11-14-75
 P. I. of N. I. C. some (1961)

TIDES: HOURLY HEIGHTS

Station Manila Year 1975
 Observer Leopoldo Siller Lat. 14° 35' N Long. 120° 55' E
 Time Meridian 170° E Height datum is T&O (1901) which is 17.527 ft. below B. M. 26

| MONTH AND DAY | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Horizontal Sea |
|---------------|----------------------|-----------|---|-----------|-----------|-----------|-----------|-----------|----------------|
| | Sept. 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| DAY OF SERIES | 708 | 709 | 710 | 711 | 712 | 713 | 714 | | |
| HOUR | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 2.98 | 3.06 | 3.08 | 3.06 | 3.06 | 3.03 | 2.98 | 2.90 | 21.19 |
| | 2.92 | 3.02 | 3.08 | 3.12 | 3.17 | 3.12 | 3.00 | 2.90 | 21.41 |
| | 2.78 | 2.84 | 3.02 | 3.10 | 3.18 | 3.18 | 3.29 | 3.29 | 21.23 |
| | 2.66 | 2.77 | 2.90 | 3.02 | 3.10 | 3.18 | 3.18 | 3.18 | 20.82 |
| | 2.49 | 2.56 | 2.74 | 2.84 | 3.04 | 3.14 | 3.20 | 3.20 | 20.07 |
| | 2.34 | 2.42 | 2.57 | 2.72 | 2.86 | 3.06 | 3.18 | 3.18 | 19.17 |
| | 2.27 | 2.28 | 2.40 | 2.54 | 2.70 | 2.94 | 3.00 | 3.00 | 18.19 |
| | 2.25 | 2.23 | 2.27 | 2.37 | 2.51 | 2.74 | 2.90 | 2.90 | 17.29 |
| | 2.33 | 2.22 | 2.19 | 2.25 | 2.38 | 2.54 | 2.72 | 2.72 | 16.33 |
| | 2.45 | 2.30 | 2.20 | 2.19 | 2.24 | 2.34 | 2.54 | 2.54 | 16.26 |
| | 2.55 | 2.44 | 2.28 | 2.19 | 2.15 | 2.20 | 2.30 | 2.30 | 16.14 |
| | 2.64 | 2.52 | 2.37 | 2.24 | 2.14 | 2.10 | 2.20 | 2.20 | 16.27 |
| Noon | 2.72 | 2.60 | 2.44 | 2.32 | 2.21 | 2.15 | 2.10 | 2.10 | 16.52 |
| | 2.74 | 2.62 | 2.52 | 2.38 | 2.26 | 2.16 | 2.10 | 2.10 | 16.76 |
| | 2.70 | 2.63 | 2.54 | 2.45 | 2.34 | 2.20 | 2.13 | 2.13 | 16.99 |
| | 2.66 | 2.60 | 2.55 | 2.49 | 2.34 | 2.24 | 2.21 | 2.21 | 16.13 |
| | 2.60 | 2.58 | 2.55 | 2.52 | 2.40 | 2.35 | 2.37 | 2.37 | 17.28 |
| | 2.57 | 2.55 | 2.55 | 2.50 | 2.46 | 2.44 | 2.37 | 2.37 | 17.44 |
| | 2.58 | 2.54 | 2.56 | 2.52 | 2.50 | 2.50 | 2.42 | 2.42 | 17.64 |
| | 2.59 | 2.54 | 2.58 | 2.58 | 2.50 | 2.51 | 2.51 | 2.51 | 17.89 |
| | 2.66 | 2.64 | 2.65 | 2.66 | 2.62 | 2.65 | 2.68 | 2.68 | 18.36 |
| | 2.78 | 2.76 | 2.74 | 2.74 | 2.68 | 2.62 | 2.62 | 2.62 | 18.94 |
| | 2.90 | 2.91 | 2.87 | 2.83 | 2.77 | 2.72 | 2.65 | 2.65 | 19.65 |
| | 3.02 | 3.02 | 3.00 | 2.93 | 2.92 | 2.82 | 2.68 | 2.68 | 20.39 |
| Sum | 63.18 | 62.59 | 62.62 | 62.60 | 62.71 | 62.94 | 63.03 | 63.03 | 438.68 |
| Sum for | Sept. 1975 = 1825.78 | | Divisor = (25d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month = 6.20 | | | | | | |

Tabulated by Adelphi Date 11-3-75 Summed by Adelphi Date 11-4-75

TIDES: HOURLY HEIGHTS

Station Mantol

Observer Leopoldo Siller

Lat. 14° 35' N

Year 1975

Long. 170° 55' E

Time Meridian 120° E

Height datum is TSD (190) which is 17.35 ft. below B. M. 4a

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HORIZONTAL SUM | | | |
|---------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|----------------|---|--|--|
| | Oct | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | |
| DAY OF SERIES | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | | |
| Hour | 0 | 2.77 | 2.64 | 2.54 | 2.50 | 2.74 | 2.80 | 2.78 | 2.82 | 2.83 | 2.78 | 2.78 | 18.98 | | | |
| 1 | 2.88 | 2.65 | 2.52 | 2.52 | 2.60 | 2.64 | 2.82 | 2.82 | 2.64 | 2.82 | 2.82 | 2.82 | 18.59 | | | |
| 2 | 2.91 | 2.76 | 2.56 | 2.48 | 2.45 | 2.49 | 2.64 | 2.64 | 2.49 | 2.64 | 2.64 | 2.64 | 18.34 | | | |
| 3 | 3.00 | 2.88 | 2.64 | 2.48 | 2.34 | 2.32 | 2.40 | 2.40 | 2.32 | 2.40 | 2.40 | 2.40 | 18.11 | | | |
| 4 | 3.12 | 3.00 | 2.78 | 2.52 | 2.52 | 2.70 | 2.34 | 2.34 | 2.70 | 2.34 | 2.34 | 2.34 | 18.18 | | | |
| 5 | 3.14 | 3.11 | 2.90 | 2.64 | 2.38 | 2.16 | 2.10 | 2.10 | 2.38 | 2.16 | 2.10 | 2.10 | 18.43 | | | |
| 6 | 3.17 | 3.14 | 3.01 | 2.80 | 2.54 | 2.18 | 2.04 | 2.04 | 2.54 | 2.18 | 2.04 | 2.04 | 18.84 | | | |
| 7 | 3.08 | 3.16 | 3.10 | 3.00 | 2.70 | 2.54 | 2.12 | 2.12 | 2.70 | 2.54 | 2.12 | 2.12 | 19.50 | | | |
| 8 | 2.94 | 3.12 | 3.14 | 3.10 | 2.84 | 2.54 | 2.24 | 2.24 | 2.84 | 2.54 | 2.24 | 2.24 | 19.92 | | | |
| 9 | 2.78 | 3.00 | 3.14 | 3.12 | 2.95 | 2.68 | 2.40 | 2.40 | 2.95 | 2.68 | 2.40 | 2.40 | 20.07 | | | |
| 10 | 2.56 | 2.82 | 3.06 | 3.10 | 3.02 | 2.78 | 2.57 | 2.57 | 3.02 | 2.78 | 2.57 | 2.57 | 19.91 | | | |
| 11 | 2.35 | 2.64 | 2.86 | 3.02 | 3.02 | 2.85 | 2.68 | 2.68 | 3.02 | 2.85 | 2.68 | 2.68 | 19.41 | | | |
| Noon | 2.21 | 2.42 | 2.66 | 2.84 | 2.92 | 2.83 | 2.74 | 2.74 | 2.92 | 2.83 | 2.74 | 2.74 | 18.62 | | | |
| 13 | 2.10 | 2.27 | 2.45 | 2.60 | 2.71 | 2.75 | 2.72 | 2.72 | 2.71 | 2.75 | 2.72 | 2.72 | 17.66 | | | |
| 14 | 2.08 | 2.16 | 2.29 | 2.46 | 2.60 | 2.64 | 2.64 | 2.64 | 2.60 | 2.64 | 2.64 | 2.64 | 16.89 | | | |
| 15 | 2.11 | 2.11 | 2.22 | 2.34 | 2.48 | 2.50 | 2.53 | 2.53 | 2.48 | 2.50 | 2.53 | 2.53 | 16.33 | | | |
| 16 | 2.22 | 2.18 | 2.25 | 2.30 | 2.41 | 2.44 | 2.46 | 2.46 | 2.41 | 2.44 | 2.46 | 2.46 | 16.27 | | | |
| 17 | 2.30 | 2.29 | 2.31 | 2.35 | 2.43 | 2.42 | 2.40 | 2.40 | 2.43 | 2.42 | 2.40 | 2.40 | 16.60 | | | |
| 18 | 2.35 | 2.40 | 2.44 | 2.52 | 2.59 | 2.48 | 2.53 | 2.53 | 2.52 | 2.48 | 2.53 | 2.53 | 17.27 | | | |
| 19 | 2.50 | 2.50 | 2.54 | 2.62 | 2.60 | 2.63 | 2.60 | 2.60 | 2.62 | 2.60 | 2.63 | 2.63 | 17.49 | | | |
| 20 | 2.55 | 2.60 | 2.67 | 2.75 | 2.78 | 2.80 | 2.76 | 2.76 | 2.75 | 2.78 | 2.80 | 2.80 | 18.91 | | | |
| 21 | 2.60 | 2.64 | 2.74 | 2.80 | 2.88 | 2.92 | 2.94 | 2.94 | 2.88 | 2.92 | 2.94 | 2.94 | 19.52 | | | |
| 22 | 2.61 | 2.64 | 2.71 | 2.82 | 2.90 | 3.02 | 3.08 | 3.08 | 2.90 | 3.02 | 3.08 | 3.08 | 19.84 | | | |
| 23 | 2.62 | 2.60 | 2.64 | 2.82 | 2.90 | 3.04 | 3.12 | 3.12 | 3.04 | 3.08 | 3.12 | 3.12 | 19.74 | | | |
| Sum | 6305 | 6375 | 6418 | 6462 | 6409 | 6275 | 6180 | 6180 | 6275 | 6409 | 6462 | 6418 | 443.92 | | | |
| Sum for | | | | | | | | | | | | | | | | |

Divisor—(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month—

Tabulated by R Lopez

Date 11-13-75

Summed by R Lopez

Date 11-13-75

Oct

TIDES: HOURLY HEIGHTS

Station Manila Year 1975
 Observer Leopoldo Trillo Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is ISO (190) which is 17.537 ft 5.342 ft below B. M. 4a

| MONTH AND DAY | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | Month Day | HORIZONTAL SUM |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| | Sept. 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| Day of Station | 217 | 218 | 219 | 220 | 221 | 222 | 223 | | |
| Hour | 2.56 | 2.53 | 2.51 | 2.36 | 2.68 | 2.87 | 2.90 | | 18.60 |
| 0 | 2.56 | 2.53 | 2.51 | 2.36 | 2.68 | 2.87 | 2.90 | | 18.60 |
| 1 | 2.64 | 2.54 | 2.46 | 2.49 | 2.58 | 2.71 | 2.91 | | 18.34 |
| 2 | 2.75 | 2.60 | 2.46 | 2.43 | 2.78 | 2.58 | 2.78 | | 18.05 |
| 3 | 2.86 | 2.68 | 2.54 | 2.41 | 2.38 | 2.44 | 2.64 | | 17.91 |
| 4 | 3.02 | 2.84 | 2.65 | 2.44 | 2.70 | 2.37 | 2.43 | | 18.06 |
| 5 | 3.12 | 2.99 | 2.80 | 2.54 | 2.36 | 2.27 | 2.32 | | 18.40 |
| 6 | 3.22 | 3.12 | 2.97 | 2.70 | 2.46 | 2.28 | 2.24 | | 18.99 |
| 7 | 3.24 | 3.23 | 3.0 | 2.91 | 2.64 | 2.40 | 2.22 | | 19.77 |
| 8 | 3.24 | 3.21 | 3.25 | 3.10 | 2.86 | 2.52 | 2.28 | | 20.51 |
| 9 | 3.05 | 3.25 | 3.30 | 3.20 | 3.00 | 2.78 | 2.44 | | 20.95 |
| 10 | 2.89 | 3.12 | 3.32 | 3.25 | 3.08 | 2.80 | 2.55 | | 21.10 |
| 11 | 2.65 | 2.93 | 3.14 | 3.22 | 3.12 | 2.98 | 2.72 | | 20.79 |
| Noon | 2.45 | 2.70 | 2.92 | 3.08 | 3.08 | 3.02 | 2.82 | | 20.07 |
| 13 | 2.25 | 2.44 | 2.68 | 2.86 | 2.94 | 2.98 | 2.84 | | 18.99 |
| 14 | 2.10 | 2.23 | 2.45 | 2.64 | 2.75 | 2.82 | 2.78 | | 17.77 |
| 15 | 2.04 | 2.09 | 2.29 | 2.42 | 2.53 | 2.66 | 2.67 | | 16.26 |
| 16 | 2.04 | 2.05 | 2.14 | 2.28 | 2.36 | 2.54 | 2.53 | | 15.99 |
| 17 | 2.08 | 2.08 | 2.12 | 2.18 | 2.28 | 2.47 | 2.48 | | 15.66 |
| 18 | 2.14 | 2.16 | 2.16 | 2.22 | 2.25 | 2.40 | 2.44 | | 15.83 |
| 19 | 2.25 | 2.26 | 2.30 | 2.37 | 2.34 | 2.42 | 2.46 | | 17.35 |
| 20 | 2.36 | 2.36 | 2.42 | 2.48 | 2.50 | 2.58 | 2.52 | | 17.19 |
| 21 | 2.46 | 2.44 | 2.54 | 2.62 | 2.64 | 2.64 | 2.66 | | 18.05 |
| 22 | 2.52 | 2.53 | 2.60 | 2.69 | 2.76 | 2.83 | 2.84 | | 18.81 |
| 23 | 2.53 | 2.52 | 2.62 | 2.72 | 2.82 | 2.94 | 2.97 | | 19.14 |
| Sum | 62.50 | 63.02 | 63.79 | 63.76 | 63.24 | 63.19 | 62.52 | | 442.05 |

Sum for Divisor: (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month

Tabulated by Blaney Date 5-3-75 Summed by Blaney Date 1-7-75

TIDES: HOURLY HEIGHTS

Station Mamla Year 1975
 Observer Leopoldo Silleda Lat. 14° 35' N Long. 120° 58' E
 Time Meridian 120° E Height datum is TSe (199) which is 11.527 ft 5.34 ft below B. M. 4 a

| MONTH AND DAY | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | Month | Day | HOUR-ZONTAL SUM |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| | Aug. | 27 | 28 | 29 | 30 | 31 | Sept. | 1 | 2 | 3 | 4 | | |
| DAY OF SERIES | 239 | | 240 | | 241 | | 242 | | 243 | | 244 | | 245 |
| Hour | 2.87 | 2.90 | 2.88 | 2.85 | 2.86 | 2.78 | 2.69 | 2.60 | 2.51 | 2.42 | 2.33 | 2.24 | 19.75 |
| 1 | 2.86 | 2.94 | 2.92 | 2.95 | 3.00 | 2.88 | 2.78 | 2.68 | 2.59 | 2.50 | 2.41 | 2.32 | 20.33 |
| 2 | 2.88 | 2.92 | 2.95 | 3.00 | 3.06 | 2.98 | 2.89 | 2.80 | 2.71 | 2.62 | 2.53 | 2.44 | 20.68 |
| 3 | 2.76 | 2.86 | 2.94 | 3.02 | 3.06 | 3.08 | 3.02 | 2.93 | 2.84 | 2.75 | 2.66 | 2.57 | 20.72 |
| 4 | 2.64 | 2.80 | 2.90 | 2.98 | 3.04 | 3.12 | 3.10 | 3.04 | 2.95 | 2.86 | 2.77 | 2.68 | 20.58 |
| 5 | 2.54 | 2.70 | 2.80 | 2.90 | 3.04 | 3.16 | 3.14 | 3.08 | 2.99 | 2.90 | 2.81 | 2.72 | 20.22 |
| 6 | 2.49 | 2.58 | 2.66 | 2.78 | 2.98 | 3.13 | 3.17 | 3.11 | 3.02 | 2.93 | 2.84 | 2.75 | 19.79 |
| 7 | 2.40 | 2.48 | 2.52 | 2.65 | 2.85 | 3.02 | 3.14 | 3.18 | 3.12 | 3.03 | 2.94 | 2.85 | 19.22 |
| 8 | 2.44 | 2.40 | 2.40 | 2.52 | 2.66 | 2.84 | 3.04 | 3.14 | 3.18 | 3.12 | 3.03 | 2.94 | 18.30 |
| 9 | 2.46 | 2.40 | 2.36 | 2.40 | 2.47 | 2.64 | 2.83 | 2.93 | 2.97 | 2.91 | 2.82 | 2.73 | 17.62 |
| 10 | 2.54 | 2.46 | 2.34 | 2.30 | 2.35 | 2.44 | 2.63 | 2.73 | 2.77 | 2.71 | 2.62 | 2.53 | 17.04 |
| 11 | 2.66 | 2.54 | 2.40 | 2.28 | 2.28 | 2.30 | 2.49 | 2.59 | 2.63 | 2.57 | 2.48 | 2.39 | 16.86 |
| Noon | 2.74 | 2.60 | 2.44 | 2.30 | 2.24 | 2.18 | 2.25 | 2.35 | 2.45 | 2.49 | 2.43 | 2.34 | 16.75 |
| 13 | 2.78 | 2.62 | 2.46 | 2.34 | 2.22 | 2.10 | 2.12 | 2.22 | 2.32 | 2.36 | 2.30 | 2.21 | 16.34 |
| 14 | 2.74 | 2.62 | 2.48 | 2.36 | 2.22 | 2.08 | 2.04 | 2.14 | 2.24 | 2.28 | 2.22 | 2.13 | 16.54 |
| 15 | 2.66 | 2.60 | 2.50 | 2.30 | 2.22 | 2.08 | 2.00 | 2.10 | 2.20 | 2.24 | 2.18 | 2.09 | 16.41 |
| 16 | 2.58 | 2.58 | 2.50 | 2.40 | 2.28 | 2.14 | 2.04 | 2.14 | 2.24 | 2.28 | 2.22 | 2.13 | 16.05 |
| 17 | 2.54 | 2.52 | 2.50 | 2.42 | 2.34 | 2.22 | 2.10 | 2.20 | 2.30 | 2.34 | 2.28 | 2.19 | 16.64 |
| 18 | 2.50 | 2.46 | 2.47 | 2.44 | 2.38 | 2.29 | 2.20 | 2.30 | 2.40 | 2.44 | 2.38 | 2.29 | 16.74 |
| 19 | 2.46 | 2.42 | 2.44 | 2.46 | 2.40 | 2.36 | 2.32 | 2.36 | 2.46 | 2.50 | 2.44 | 2.35 | 16.88 |
| 20 | 2.46 | 2.42 | 2.46 | 2.48 | 2.42 | 2.40 | 2.39 | 2.43 | 2.53 | 2.57 | 2.51 | 2.42 | 17.03 |
| 21 | 2.52 | 2.52 | 2.52 | 2.58 | 2.50 | 2.44 | 2.45 | 2.49 | 2.59 | 2.63 | 2.57 | 2.48 | 17.53 |
| 22 | 2.64 | 2.62 | 2.60 | 2.50 | 2.56 | 2.50 | 2.48 | 2.52 | 2.62 | 2.66 | 2.60 | 2.51 | 17.90 |
| 23 | 2.78 | 2.76 | 2.71 | 2.70 | 2.66 | 2.58 | 2.50 | 2.54 | 2.64 | 2.68 | 2.62 | 2.53 | 18.69 |
| Sum | 67.95 | 67.74 | 67.15 | 61.97 | 62.09 | 61.80 | 61.67 | 62.51 | 63.35 | 64.19 | 65.03 | 65.87 | 435.31 |

Sum for Aug. 1975 = 7493.58 Divisor = (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month = 2.68 1/2

Tabulated by St. Lopez Date 10-2-75 Summed by St. Lopez Date 10-2-75
 9-10
 7-2-11-17